

ABSTRACT OF THE DISCLOSURE

A rocket motor insulation is formed of a solid EPDM rubber, a liquid EPDM rubber, an inorganic hydrophilic filler, and polyaramide fiber in place of asbestos of the conventional insulation. The hydrophilic filler  
5 takes the form of powder. The fine particles of the filler powder are encapsulated with a rubber material. The encapsulated particles of the filler are provided with protection against interference by moisture contents of other ingredients of a compounding recipe, relative humidity of a processing environment, and a shearing stress brought about in the  
10 course of preparation. The vulcanized end product of the insulation has an excellent physical property of ablative resistance.